



Scavenger Hunt Lesson Plan

Name: Connie Carpenter	Time Required: Three 1 hour class periods
Subject: Biology	Grade Level: 9-10

Overview	Students will gain knowledge of plants, how they function & and correctly collect and identify characteristics of rangeland plants by using plant guides.
Goal(s) & Objective(s)	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Successfully identify rangeland related items. 2. Use resource guides and materials to help them successfully identify plants and their characteristics. 3. Describe the difference between renewable and nonrenewable resources. 4. Use observations and data as evidence on which to base scientific explanations 5. Analyze environmental issues such as water and air quality, hazardous waste, forest health, and agricultural production <p>Students will learn:</p> <ol style="list-style-type: none"> 1. About rangeland management and resources. 2. How to work together in groups to solve problems.
Materials	<ol style="list-style-type: none"> 1. Ziploc Bags 2. Markers to number the bags 3. List of Partners & group number 4. Resource Books, IRRC Plant guides

<p>Teaching Activities: <i>Instructional Approaches/Strategies</i></p>	<p>Introduction:</p> <ol style="list-style-type: none"> 1. Introduce scavenger hunt activity. 2. Review plant characteristics and discuss specific characteristics that help define plants. <p>Independent Practice</p> <ol style="list-style-type: none"> 3. Students will complete scavenger hunt 4. While completing SH work sheet, students will collect plant samples to present to class. <p>Closure</p> <ul style="list-style-type: none"> - Review what the students found & discuss standards with them & how the standards apply to their activity.
<p>Assessment:</p>	

Attachments:

Rangeland Scavenger Hunt worksheet
List of plant variations

RANGELAND SCAVENGER HUNT

You will need to find the following items with your partner or the group that you are assigned to. You may use any books or other resources (except the teacher) to help you gather these items. You may use one item to help fulfill up to three characteristics but no more than that. Happy hunting!!!

<p>Leaf Margins:</p> <p>1. _____ Serrated 2. _____ Lobed 3. _____ Entire</p>	<p>Rangeland Plants:</p> <p>18. _____ Grass 19. _____ Forb 20. _____ Shrub</p>
<p>Leaf Venation:</p> <p>4. _____ Pinate 5. _____ Palmate 6. _____ Netted 7. _____ Parallel</p>	<p>Specific Rangeland Plants:</p> <p>21. _____ Rabbit Brush 22. _____ Sage Brush 23. _____ Greasewood 24. _____ Bottle Brush Squirrel Tail 25. _____ Shadscale</p>
<p>Flower Description:</p> <p>8. _____ Spike 9. _____ Raceme 10. _____ Panicle 11. _____ Umbel</p>	<p>Miscellaneous:</p> <p>26. _____ Something biotic 27. _____ Something abiotic 28. _____ A noxious weed 29. _____ A gal 30. _____ A chewed plant part</p>
<p>Leaf Arrangements:</p> <p>12. _____ Alternate 13. _____ Opposite</p>	<p>A food Chain containing 2 organisms</p> <p>31. _____</p>
<p>Grass Structures:</p> <p>14. _____ An Awn 15. _____ A Node 16. _____ Leaf Sheath 17. _____ Stem</p>	<p>Something beautiful- (natural)</p> <p>32. _____</p>

Other Plant Variations:

Here's a list of ideas that you could add or replace depending on what type of scavenger hunt you want.

A horsetail plant

An animal track

A food chain of three organisms

A flying insect

An arachnid

A feather - legal and detached from the bird

An example of camouflage (i.e. grasshopper-grass)

Scat (this will wrinkle noses)

Two organisms associated with each other (ants & Aphids) (bees and flowers)

An example of a host –NON

HUMAN (Students are told ahead of time that they cannot bring in dead or living mammals or reptiles)

50 or any item

Seven pieces of litter left behind by humans

A producer

A consumer

An alga

A lichen

A crustacean

A taproot

A fibrous root

A monocot

A dicot

A pupa

A paramecium

An invertebrate

An annelid

A thorn

A seed dispersed by the wind

A seed dispersed by an animal

A bone